

FIG. 1

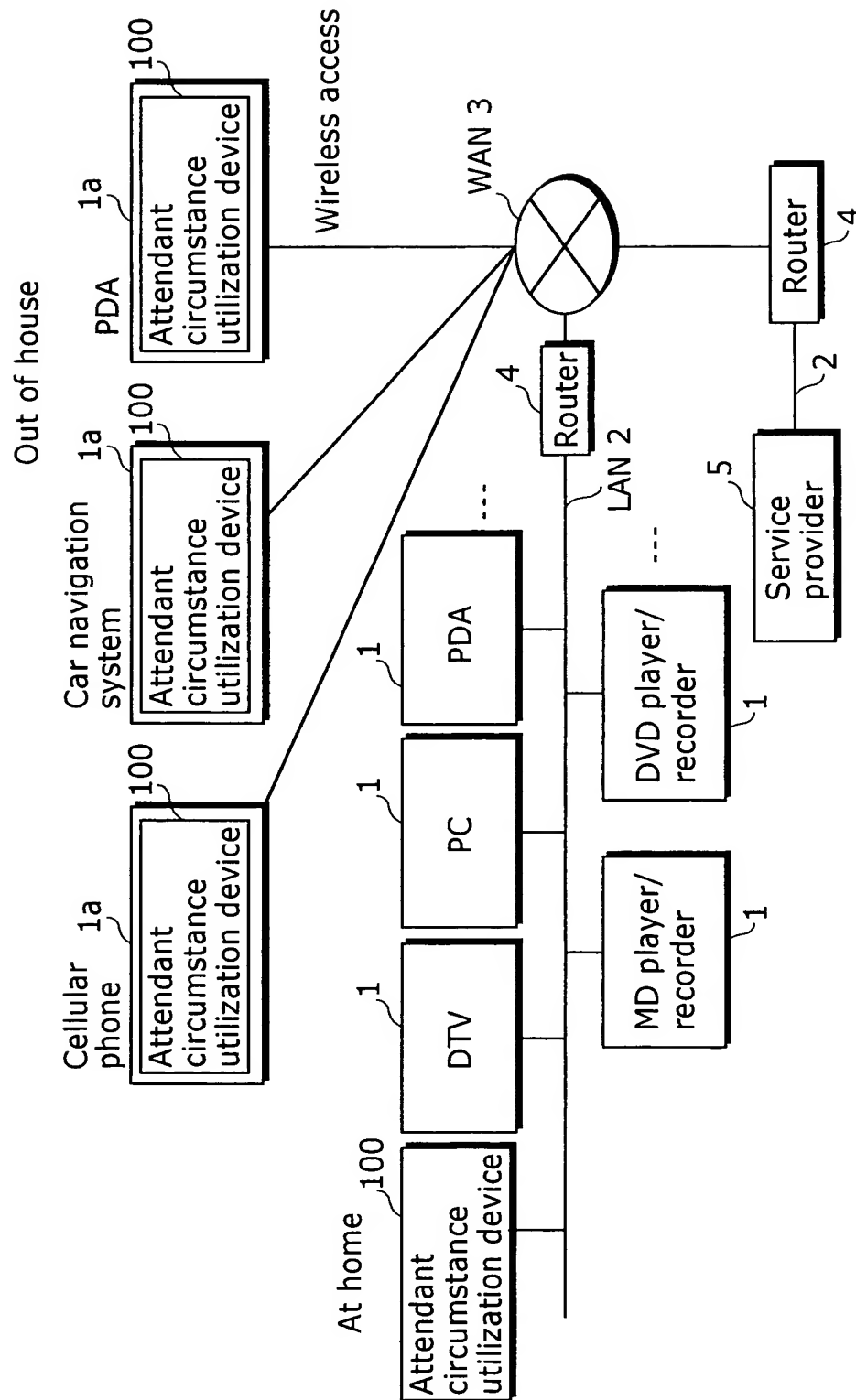


FIG. 2

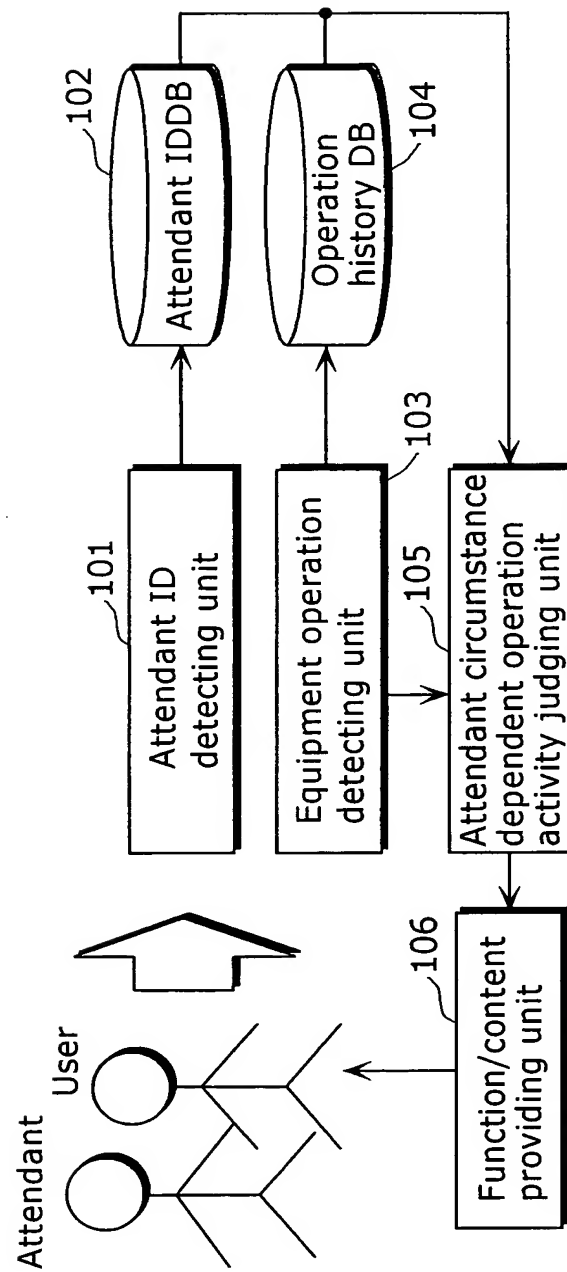


FIG. 3

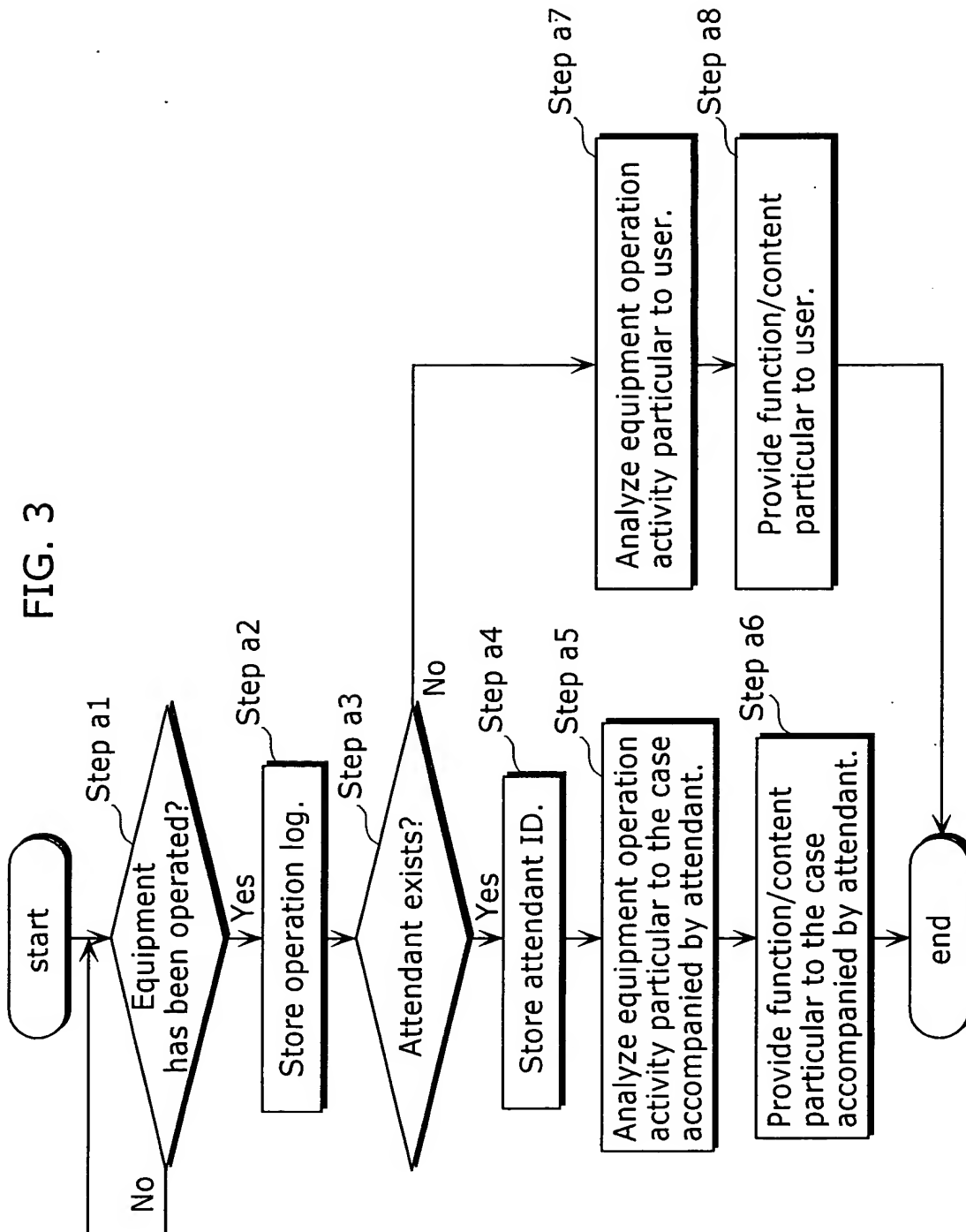


FIG. 4

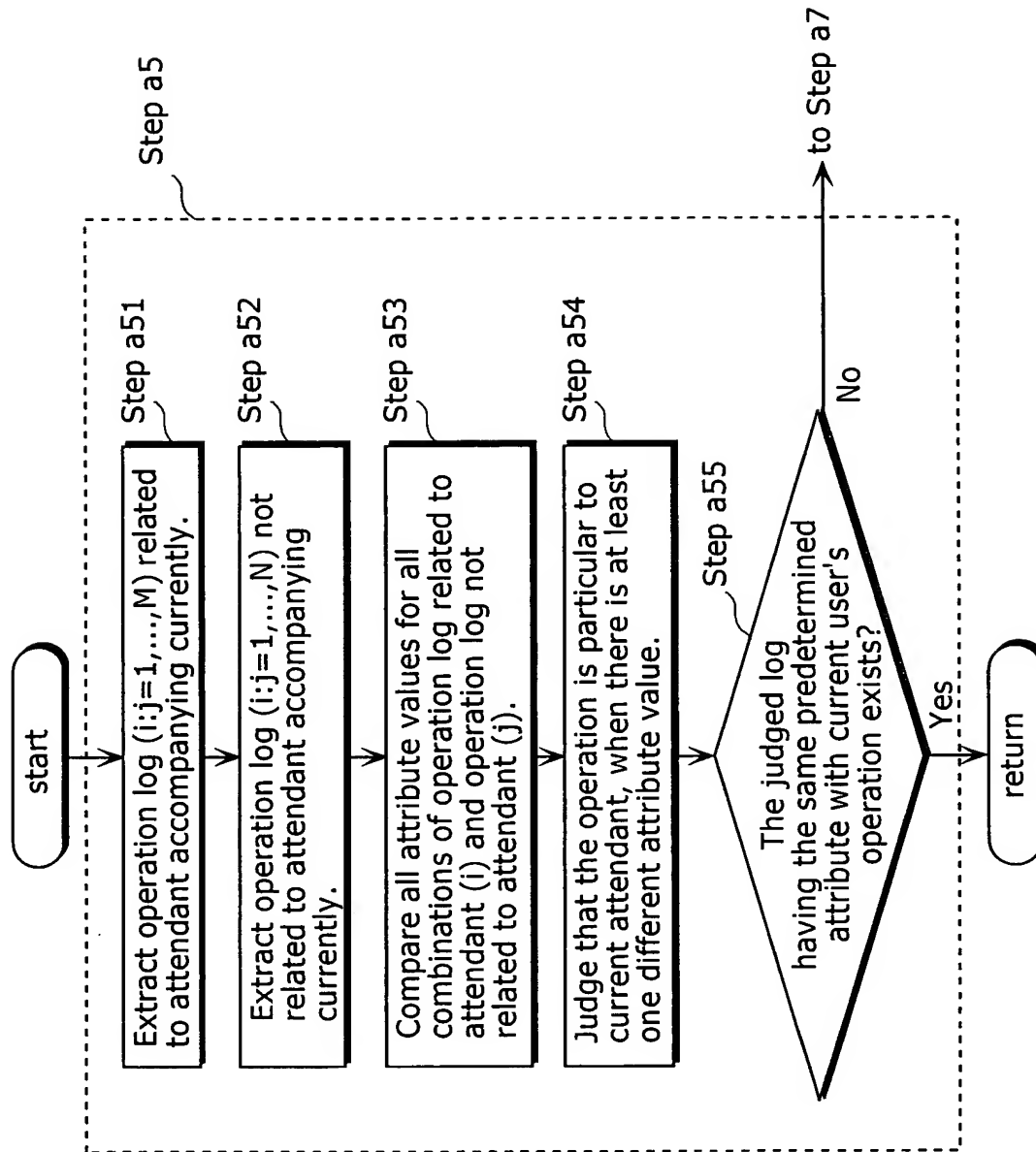
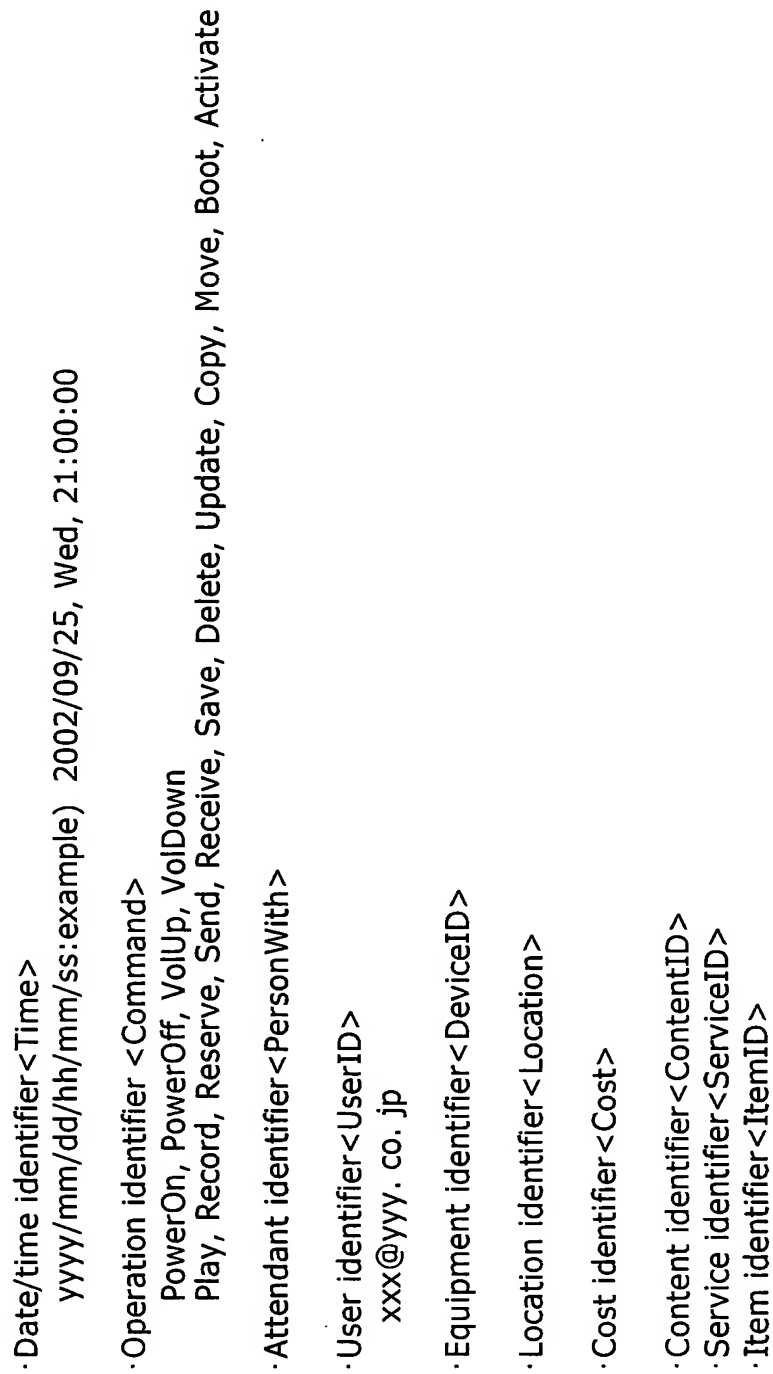


FIG. 5



- Date/time identifier<Time>
 yyyy/mm/dd/hh/mm/ss:example) 2002/09/25, Wed, 21:00:00
- Operation identifier <Command>
 PowerOn, PowerOff, VolUp, VolDown
 Play, Record, Reserve, Send, Receive, Save, Delete, Update, Copy, Move, Boot, Activate
- Attendant identifier<PersonWith>
- User identifier<UserID>
 xxx@yyy. co. jp
- Equipment identifier<DeviceID>
- Location identifier<Location>
- Cost identifier<Cost>
- Content identifier<ContentID>
- Service identifier<ServiceID>
- Item identifier<ItemID>

FIG. 6

| | <DeviceID> | <Time> | <Command> | <ContentID> | <PersonWith> |
|-----|--------------|-----------------------------|-----------|----------------|--------------|
| (1) | DTV. xxx-net | 2002/09/28/ Sat/21:53:04 | Play | xxx-003-xxxxxx | aaa. co. jp |
| (2) | DVD. xxx-net | 2002/09/28/ Sat/22:55:04 | Play | xxx-003-xxxxxx | aaa. co. jp |
| (3) | DTV. xxx-net | 2002/09/21/ Sat/21:57:04 | Play | xxx-001-xxxxxx | NULL |
| (4) | DVD. xxx-net | 2002/09/21/ Sat/22:54:14 | Play | xxx-006-xxxxxx | NULL |
| (5) | DVD. xxx-net | 2002/09/17/ Tue/20:05:04 | Play | xxx-007-xxxxxx | aaa. co. jp |
| (6) | DVD. xxx-net | 2002/09/10/ Tue/20:30:01 | Play | xxx-006-xxxxxx | NULL |
| (7) | MD. xxx-net | 2002/09/07/ Sat/21:57:52 | Play | mmm-012-mmmmmm | NULL |

FIG. 7A

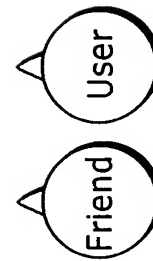
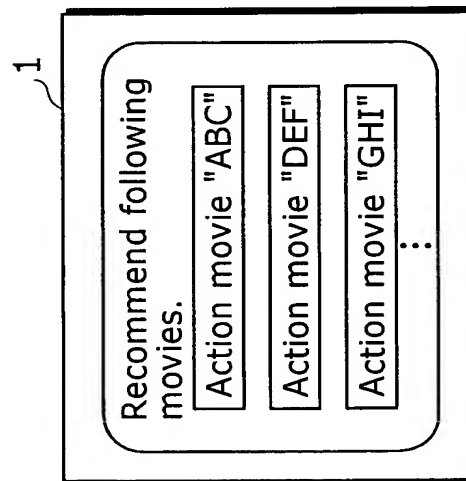


FIG. 7B

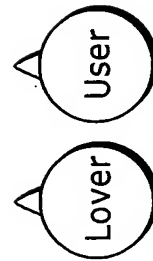
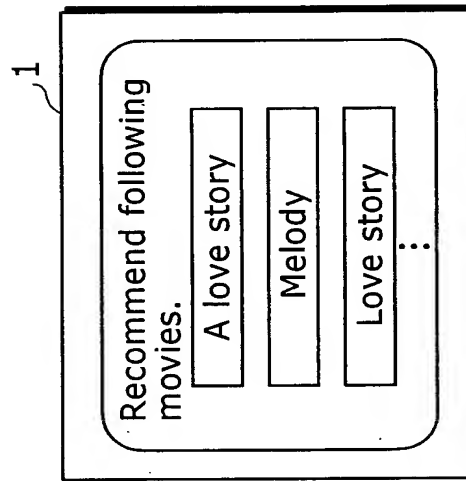


FIG. 7C

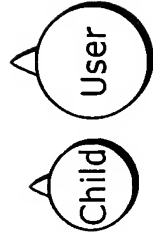
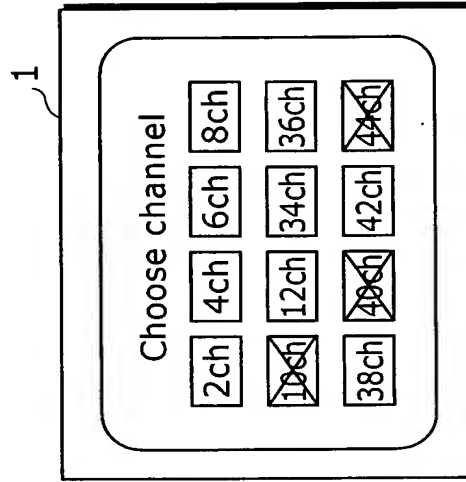


FIG. 8

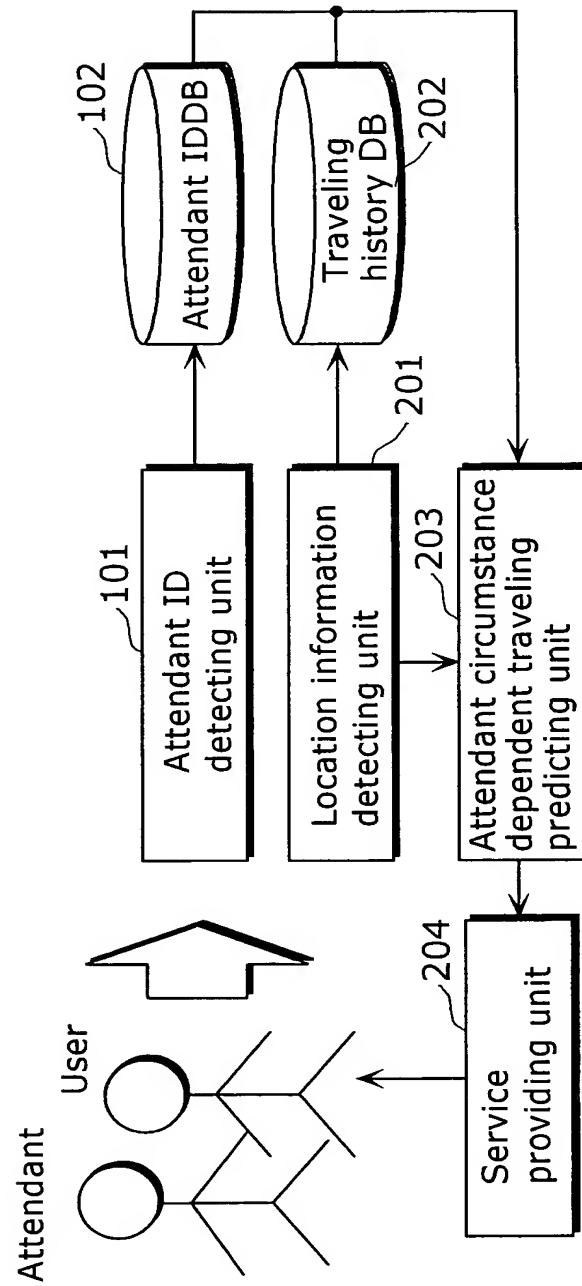


FIG. 9

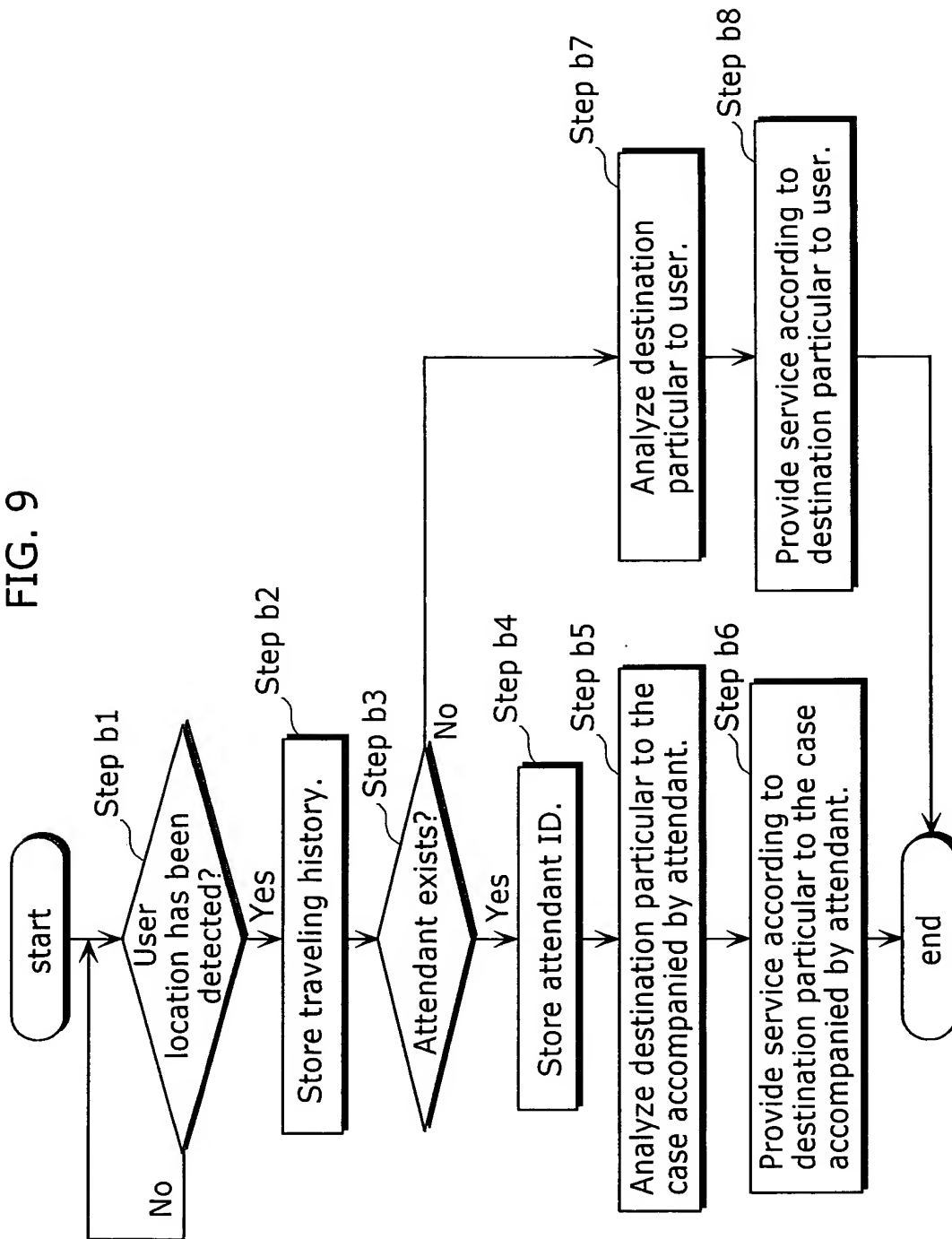


FIG. 10

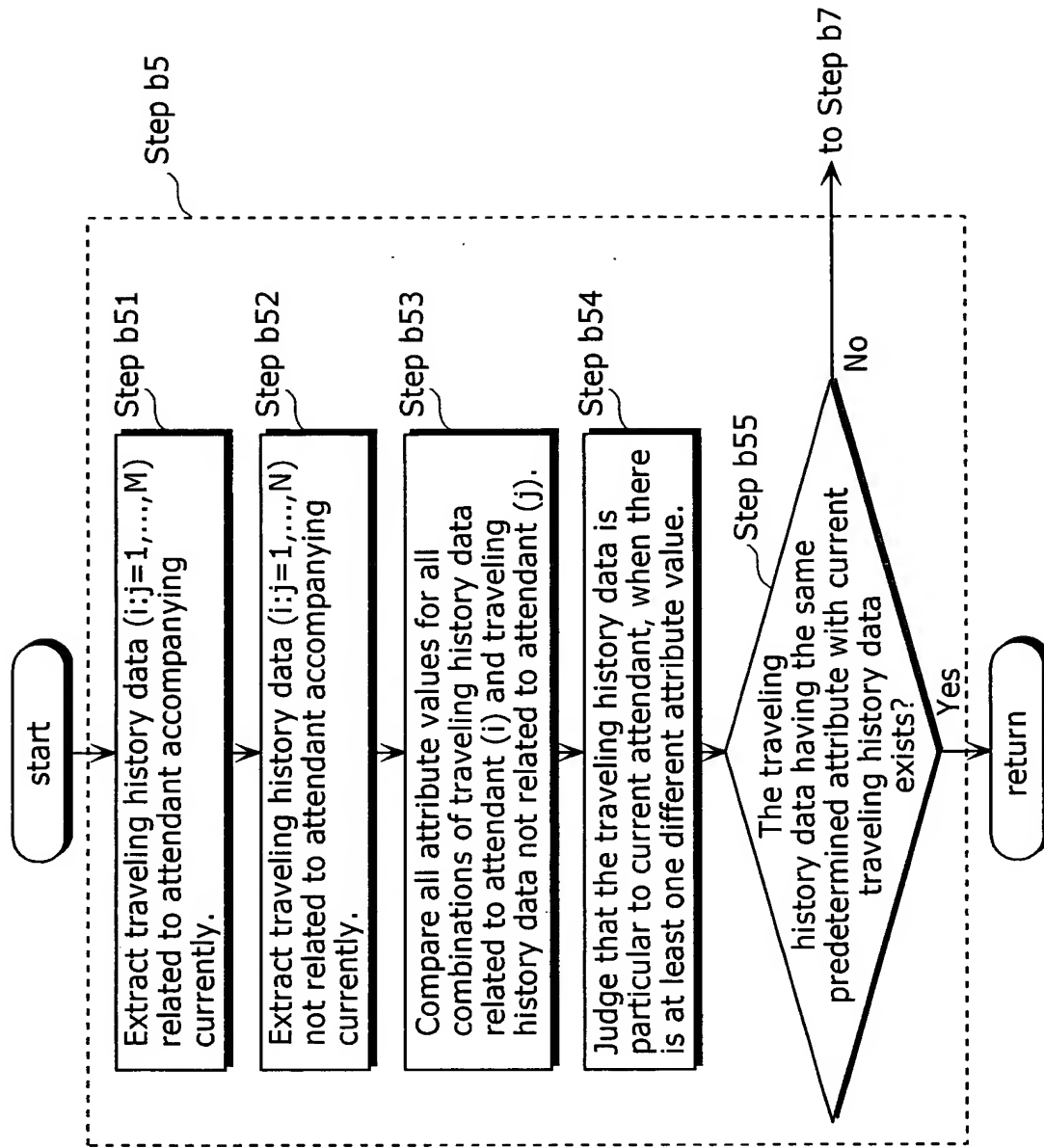


FIG. 11

| | <Time> | <Location> | <PersonWith> | Frequency/month |
|-----|-----------------------------|------------------------|--------------|-----------------|
| (1) | 2002/09/29/ Sun/10:07:04 | 101-0000 Cofee Shop | aaa. co. jp | 2 |
| (2) | 2002/09/29/ Sun/11:00:04 | xxx-xxxx Theater | aaa. co. jp | 2 |
| (3) | 2002/09/22/ Sun/10:30:10 | 101-0002 Home | NULL | 2 |
| (4) | 2002/09/22/ Sun/14:45:13 | xxx-xxxx Book Shop | NULL | 2 |

FIG. 12A

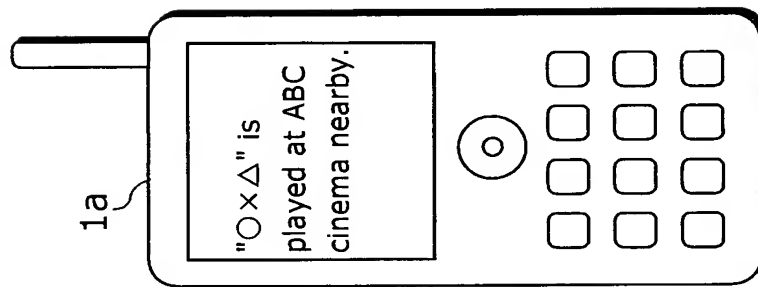


FIG. 12B

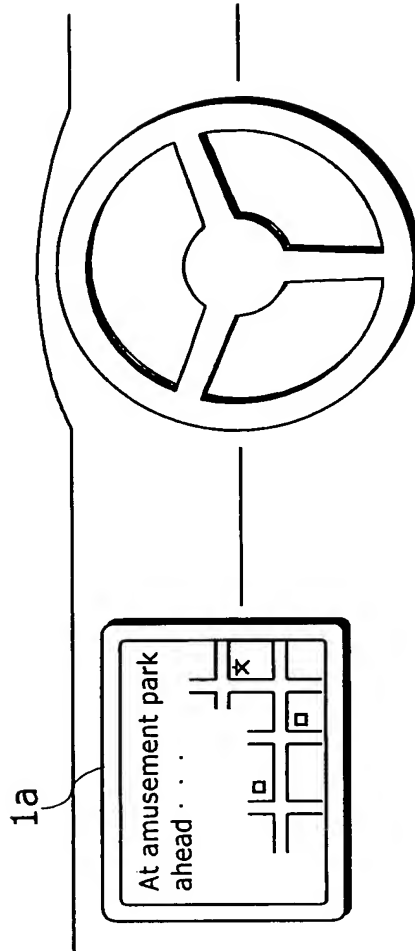


FIG. 13

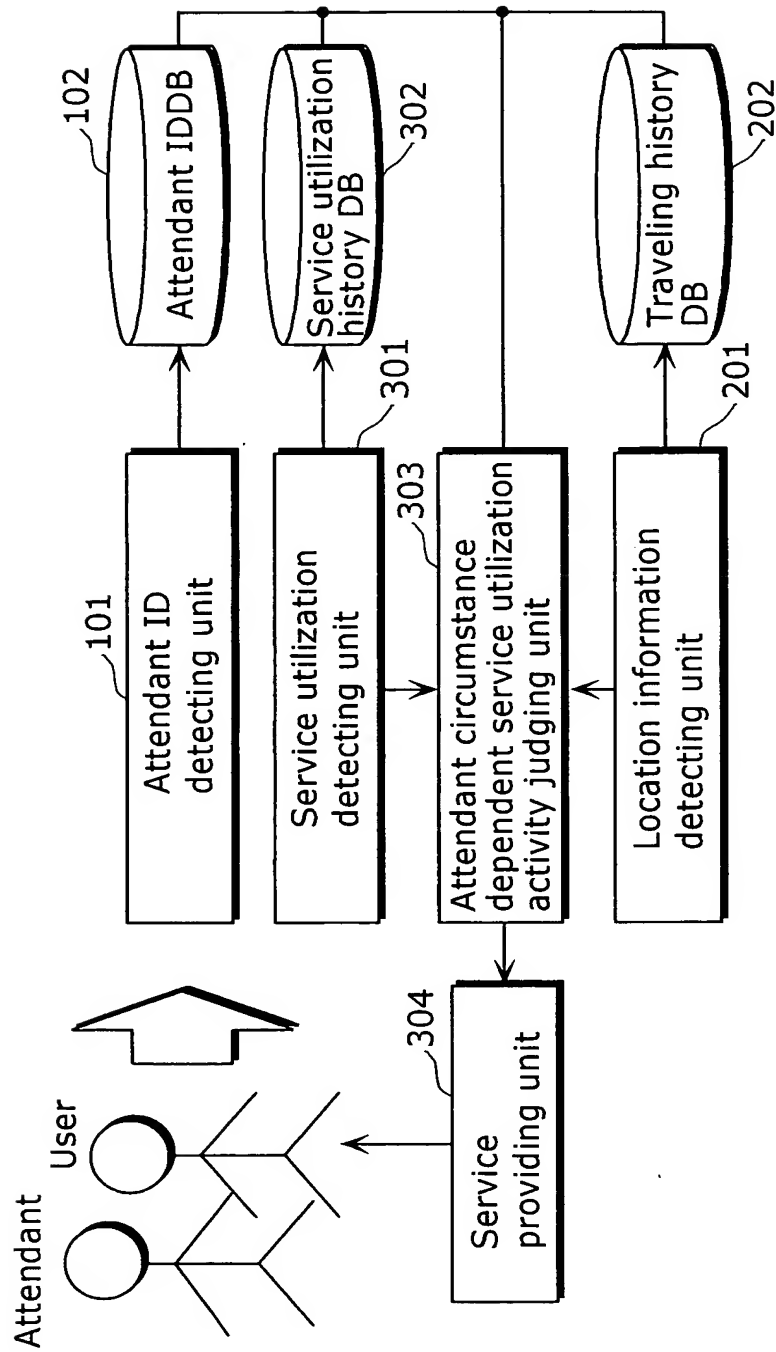
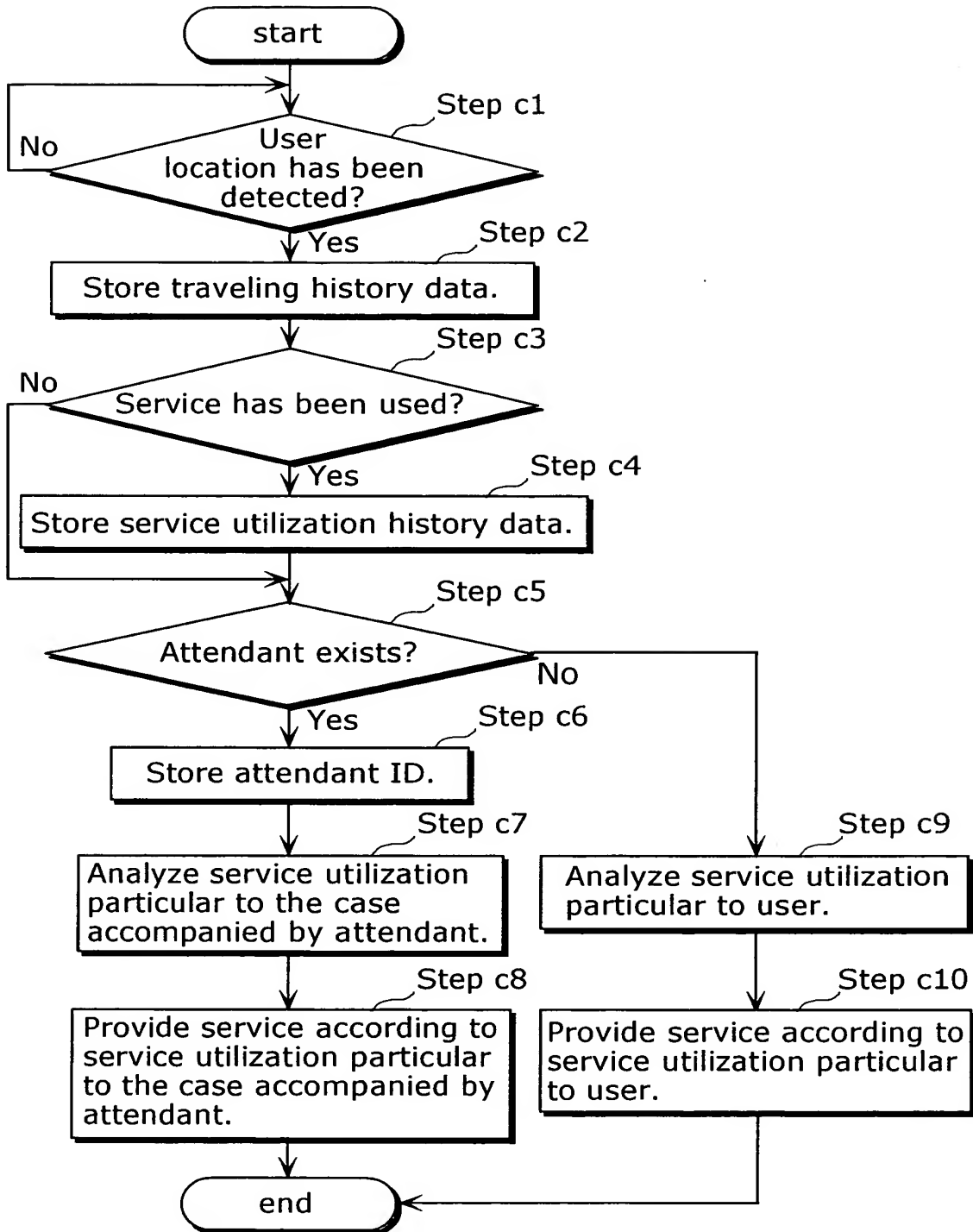


FIG. 14



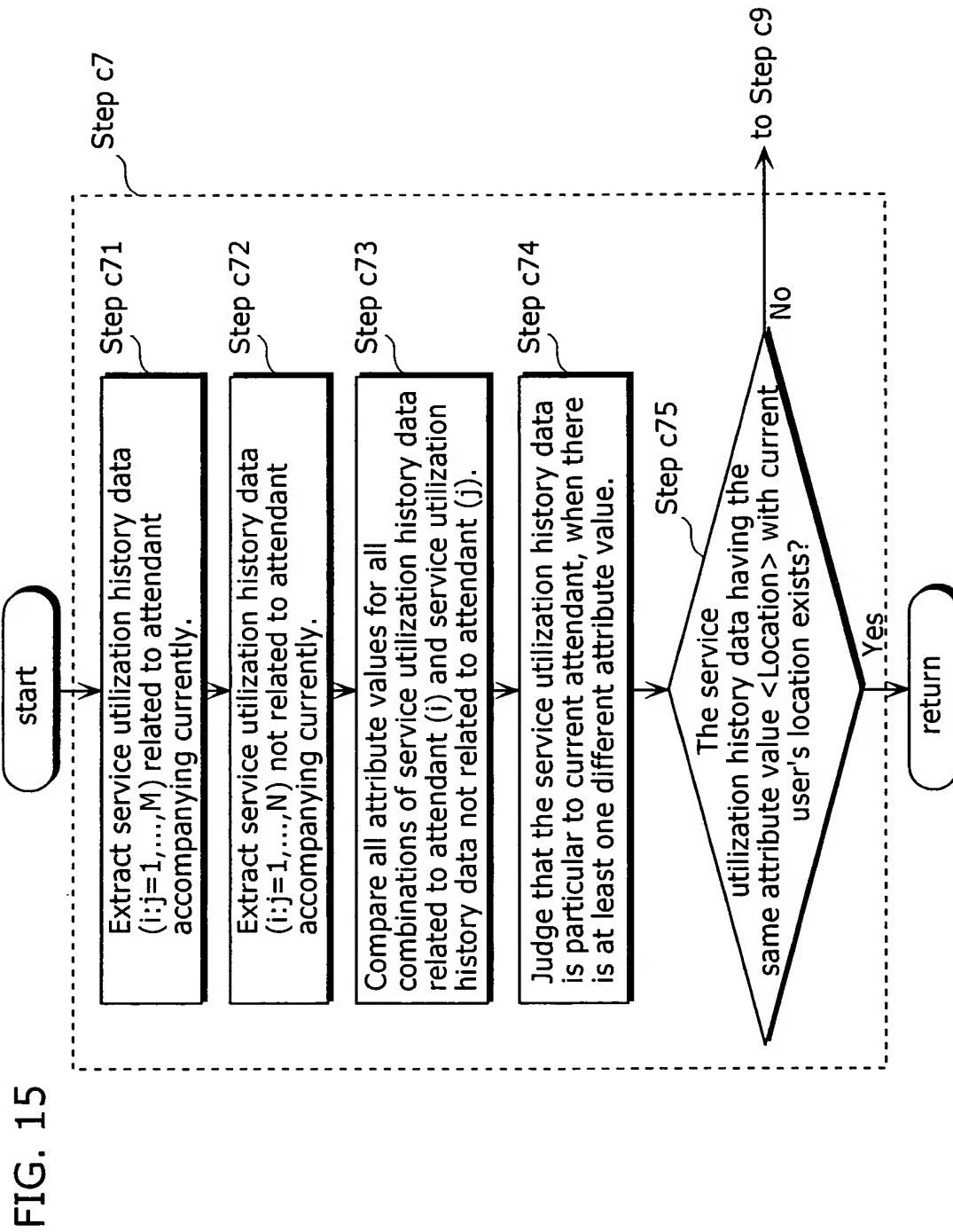


FIG. 16

| | <Time> | <Location> | <ServiceID> | <ItemID> | <Cost> | <PersonWith> |
|-----|-----------------------------|------------|--------------|------------------------------------|--------|--------------|
| (1) | 2002/09/07/ Sat/19:00:04 | xxx-xxxx | Video Rental | xxx-003-xxxxxx0 | ¥300 | aaa. co. jp |
| (2) | 2002/09/14/ Sat/19:20:45 | xxx-xxxx | Video Rental | xxx-003-xxxxxx1 xxx-003-xxxxxx2 | ¥600 | aaa. co. jp |
| (3) | 2002/09/15/ Sun/19:03:45 | xxx-xxxx | Video Rental | xxx-003-xxxxxx7 | ¥600 | aaa. co. jp |

.
. .
. . .

Frequency/month
13

| | | | | | | |
|------|-----------------------------|----------|------------------|-------|-------|------|
| (14) | 2002/09/22/ Sun/19:05:10 | yyy-yyyy | Delivery service | Pizza | ¥1600 | NULL |
|------|-----------------------------|----------|------------------|-------|-------|------|

.
. .
. . .

Frequency/month
8

FIG. 17

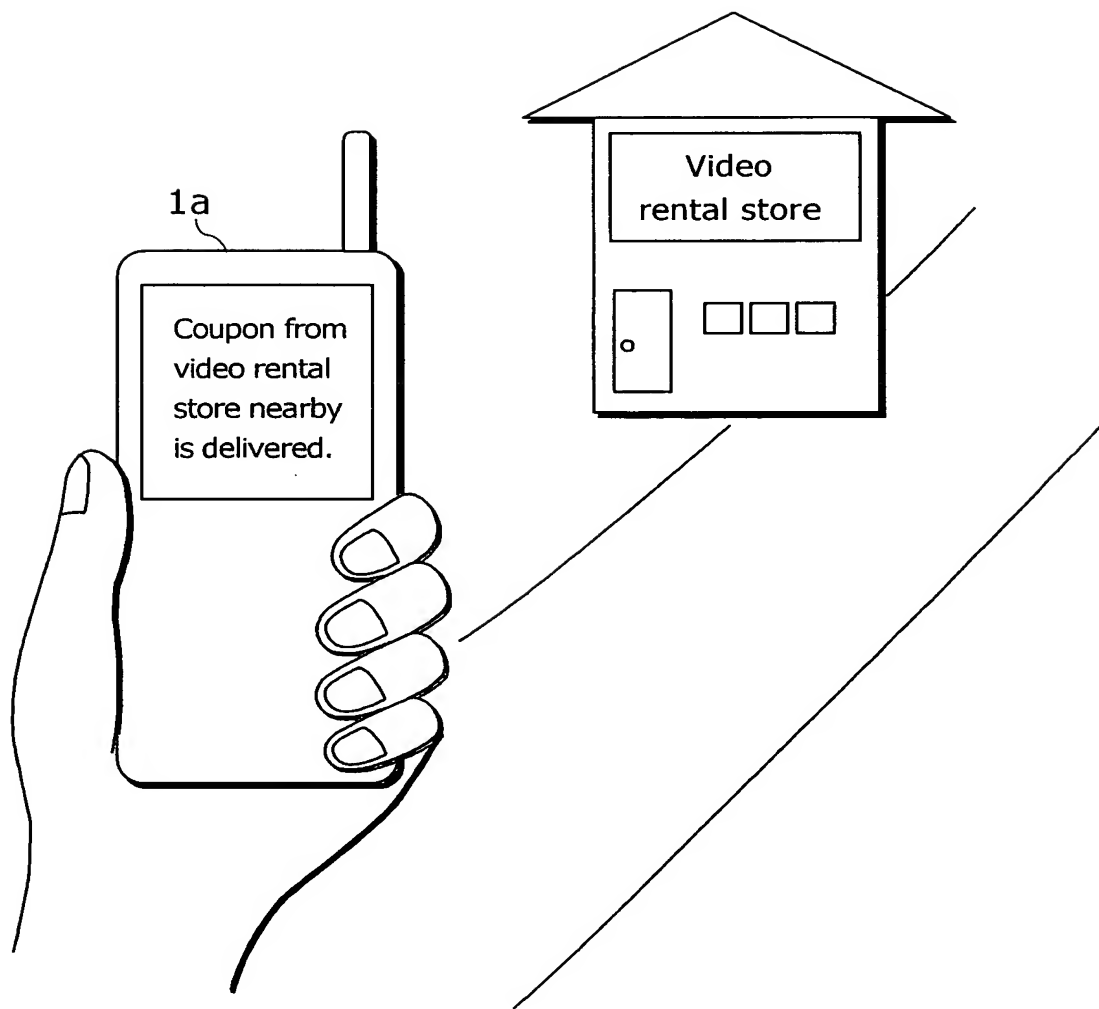
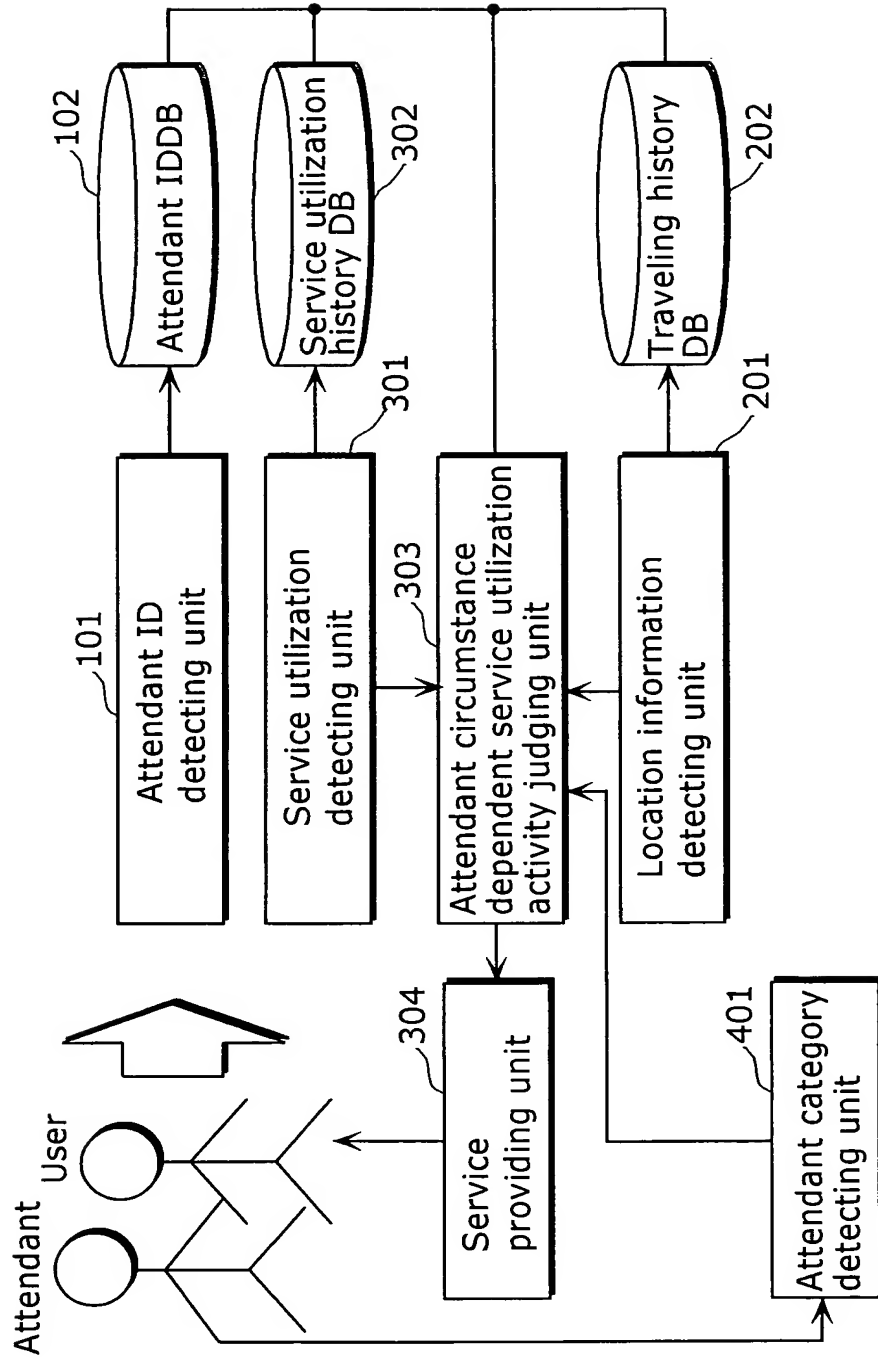


FIG. 18



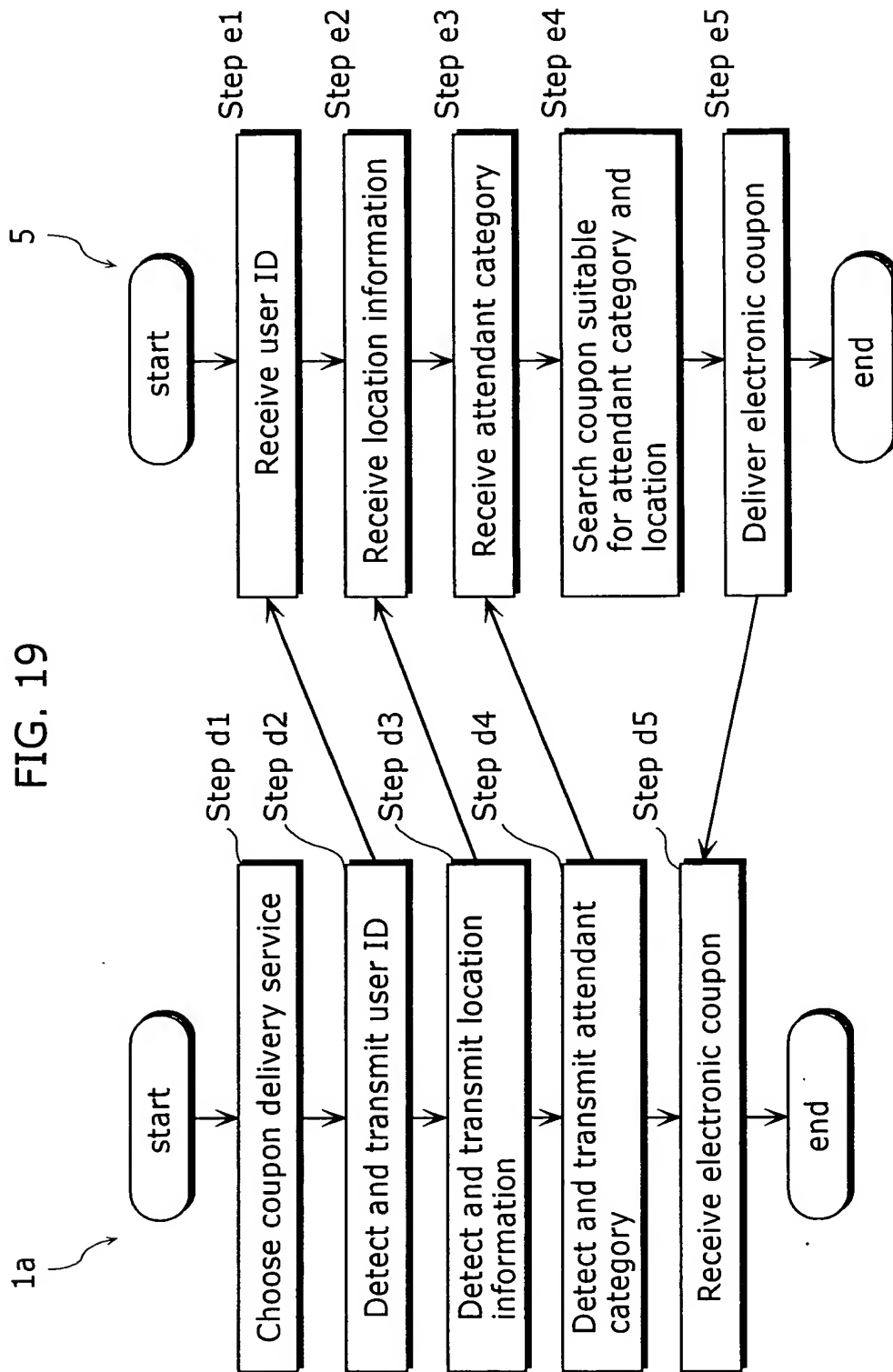


FIG. 20A

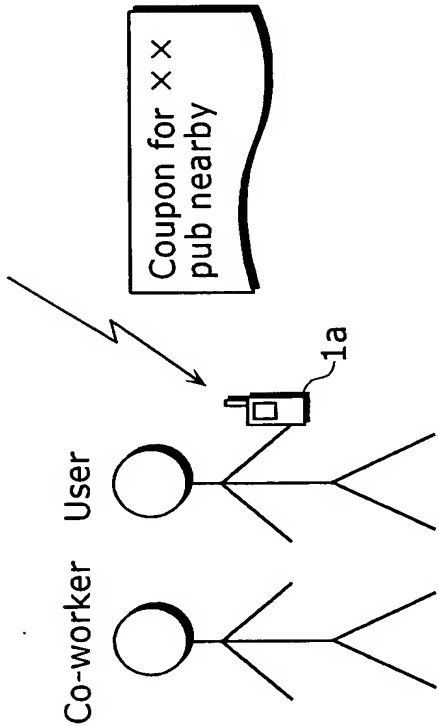


FIG. 20B

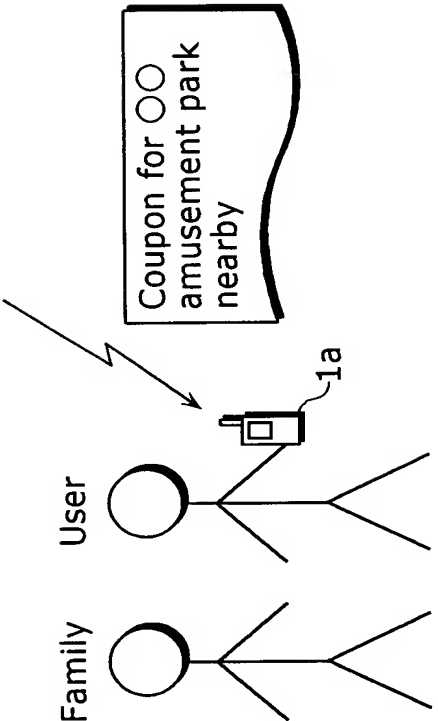
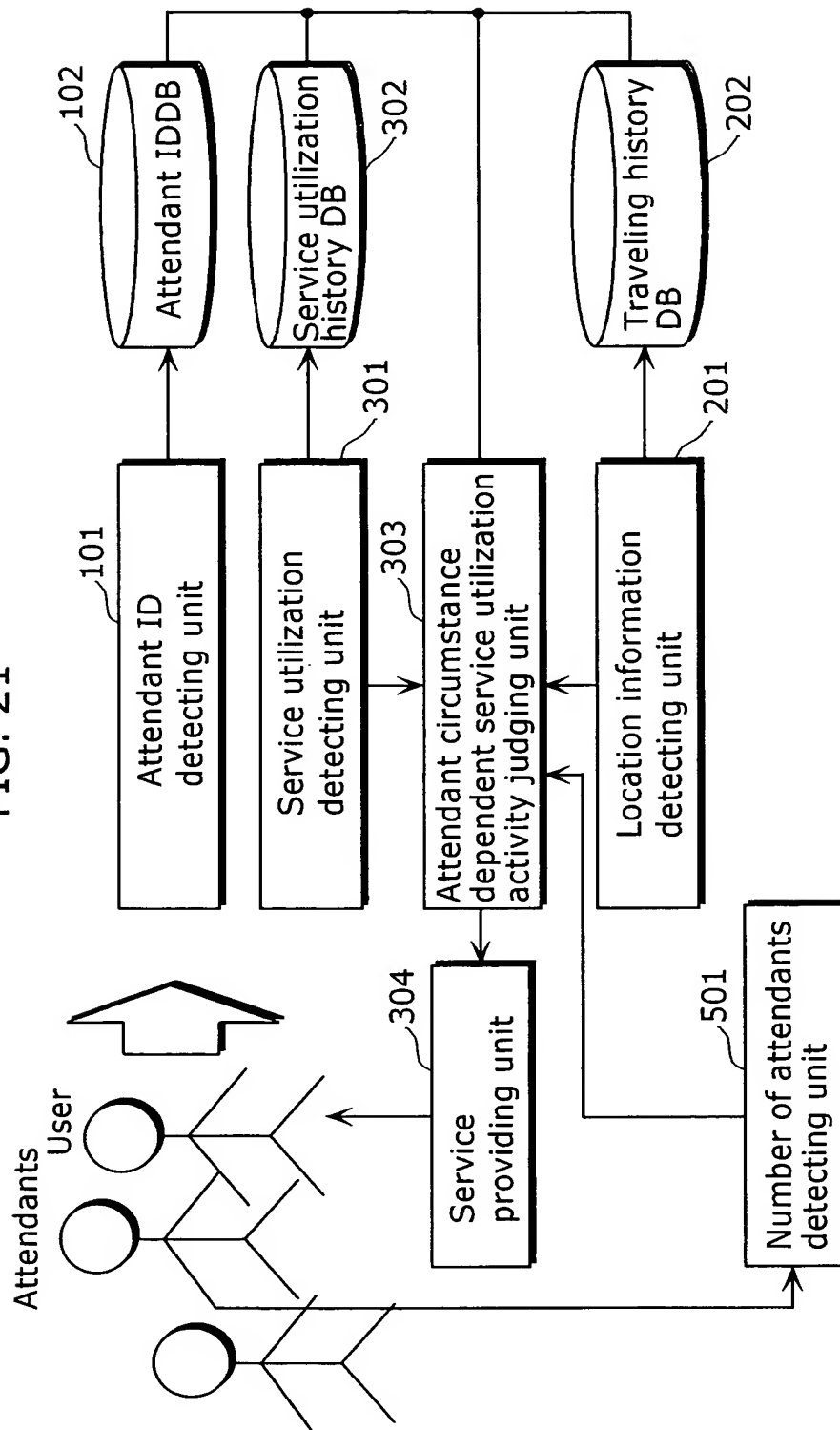


FIG. 21



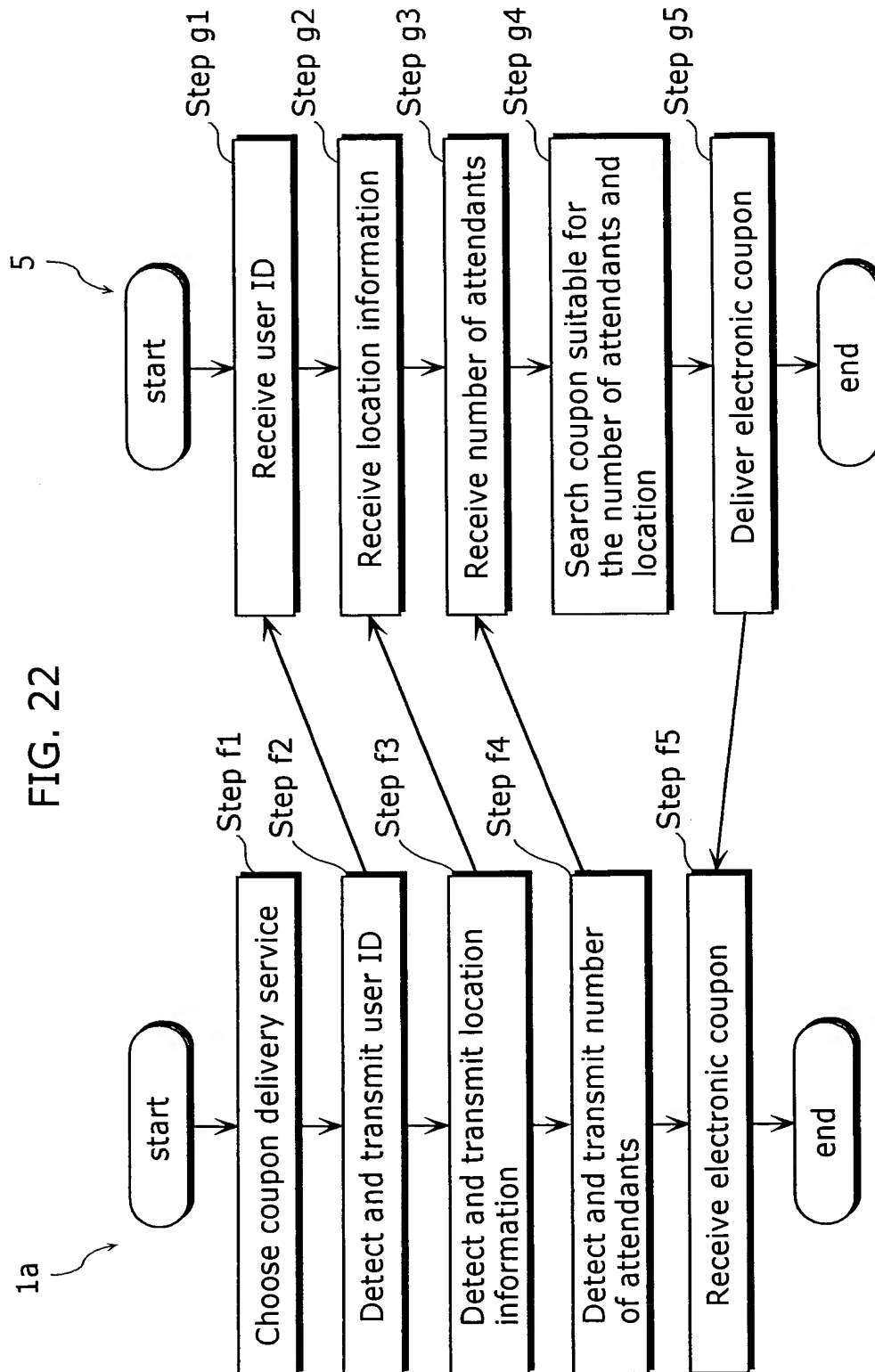


FIG. 23

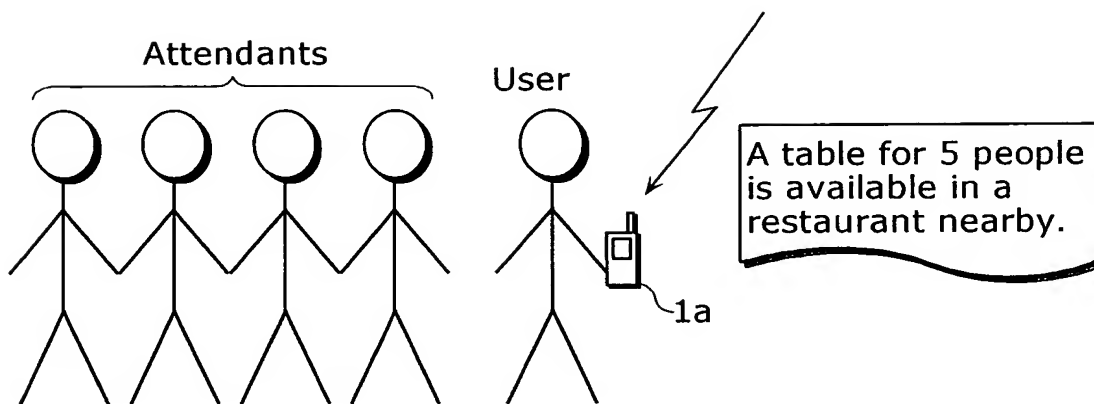


FIG. 24

